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30 January 1959

MEMORAI SUBJECT		FOR THE RECORD	25X1A2g	
l. 28 Janu Engine	The ery I	25X1A9a e undersigned 1959 to discuss feasibility of the U-2. 25X1A9a e undersigned	25X1A2g visited visited installing the J-75-P2 (Navy) 25X1A2g et with representative	98,
	Α.	Conversion of the J-57-31:	eratures to attain additional	3 :
	в.	production contract by the Na The Skymaster program has bee	IVV to normy the "dlame at a II	
25X1A9a 25X1A9a		Tiom the Mavy which will be d	two engines for esently borrowing two engines iverted from production.	25X1A2g
25X1A9a	D.	order that Kelly Johnson can	ines notify	
3.	Prob	olems:	/ <u>-</u>	

- A. Mounting: The J-75 will probably have to be changed from top to side mounting because of top clearance which will require structural changes in the "Bird."
- B. Additional Weight: Approximately 1,250 pounds will be added from engine alone not counting structural changes that will add weight which will reduce range.

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- C. Minimum Flow: The Min. Flow will have to be increased to 650 pounds, to achieve an altitude increase. This could present problems in landing because idle position 25X1A9a would produce approximately 50-60%. Stated that this problem could be overcome by minor rework of the fuel control through testing.
- D. Range: Due to increased consumption and additional weight the range will decrease to a presently unknown factor, but by using slipper tanks it was assumed that the present flight profile of a non-slippered "Bird" could be attained.

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- E. Altitude Gain: would not hazard a gestimate without more facts but conservative estimates indicated an approximate gain of 2,500 feet.

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F. Two additional personnel will require CHALICE clearance to permit entry at Lockheed and to assist in installation and testing. PRS of the two individuals have been given to security for post-haste processing. It is recommended that these clearances be processed as rapidly as possible due to the fact that one of the individuals will accompany the first engine to Lockheed which could be within a few days after Navy O.K.'s the loan.

25X1A2g

4. Summary: Application of the J-75-P2 in the "Bird" is most promising in respect to altitude gain. This writer is of the opinion that greater gains will be possible based on prior performance of Therefore, it is recommended that this program be pursued "post-haste" to accomplish necessary testing.



25X1A9a